

## **Ennio Macchi**

### **Energy Conversion Professor at the Department of Energy of the Milan Polytechnic.**

From 1980, Ennio Macchi is Professor of Energy Conversion from the academic year 1992/93 onwards) at the Industrial Engineering Faculty of the Milan Polytechnic. He has contributed with several other colleagues of the Athenaeum to the creation of the Energia Strategic Area, an interdepartmental group for broad spectrum research activities on energetic and environmental issues. Professor Macchi is the first director of the Department of Energy of the Politecnico di Milano, the new Department created to bring together more than one hundred faculty members with of a broad spectrum of expertise in the various research topics in the energy field.

He is in charge of many national and international research programs on different issues in the field of advanced technologies for energy conversion. Furthermore he has collaborated with industrial and public groups in the development of innovative components and technologies and the design and testing of many important energetic establishments from small cogeneration plants to large thermoelectric plants (over 500 MW).

Ennio Macchi has been National manager of "Energetic Machines and Systems" of the Professor's Committee from 1998 to 2002, Member of the CERSE (Experts Committee for Electric System Research) since June 2003, and currently Member of the Academic Senate of the Polytechnic of Milan since 2004.

Professor Macchi has written over 160 scientific articles that have been published in the most important international magazines on different topics including applied thermodynamics, fluid dynamics, turbomachines, heat exchangers, heat pumps, power cycles, thermoelectric plants, use of renewable energies, energetic savings, energy accumulation, cogeneration, gas turbines, gas / vapour combined cycles and hydrogen.